

FLAT HIGH BAY LED

Indoor Industrial

NORDEON

LIGHTING SOLUTIONS

DESCRIPTION

Nordeon's flat high bay fixture is a perfect fit for numerous applications including manufacturing plants, industrial facilities, warehouses, and retail spaces. With a shallow form factor and a broad range of input voltages, lumen packages, color temperatures, and mounting options the flat high bay is both a functional and versatile light source. Numerous occupancy sensor and optical options allow you to configure the light perfectly for your application. With significant energy savings over HID, this LED high bay is a clear choice for performance and cost savings.



Date: _____ Type: _____ Catalog Number: _____

Project Name: _____

ORDERING INFORMATION

| LUMINAIRE | | | | | | | | | |
|------------------------|-------|--------------|-----------------------------|---|--|----------------------------|--------------------------------------|---|--|
| FIXTURE | MODEL | CCT | DRIVER | LENS | MOUNTING | FINISH | CORD | ACCESSORIES | |
| NHBF1 Flat High Bay | 9L | 30K 3000K | UNV 120-277V Dimming | OPN Open (Standard) | ACM 5' Adjustable Cable Hanger Mount | WHT White (Standard) | BC6 Black SO Cord, 6' Length | EM Emergency Battery Back-Up | |
| | 13L | 35K 3500K | 347V 347-480V Dimming | 90 90° Optic | PDT Pendant Mount | BLK Black | BC10 Black SO Cord, 10' Length | OCA Occupancy Sensor (Aisle) | |
| | 19L | 40K 4000K | | 60 60° Optic | | | | OCO Occupancy Sensor (Open Area) | |
| | 24L | 50K 5000K | | AO Aisle Optic | | | | OC2 Occupancy Sensor 8' H X 40' Dia. | |
| | 27L | | | SPC Smooth Clear Poly- carbonate Lens | | | | OC3 Occupancy Sensor 20' H X 40' Dia. | |
| | 32L | | | SAF Smooth Frosted Acrylic Lens | | | | OC4 Occupancy Sensor 40' H X 100' Dia. | |
| | 39L | | | | | | | WG Wire Guard | |
| | 44L | | | | | | | ACH10 10' Adjustable Cable Hanger | |
| | 52L | | | | | | | ACH15 15' Adjustable Cable Hanger | |

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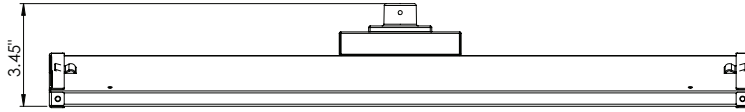
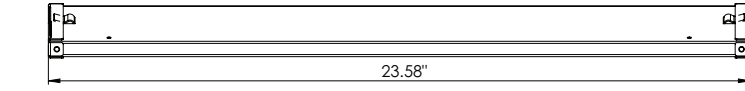
NORDEON

LIGHTING SOLUTIONS

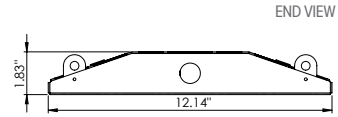
DIMENSIONAL DATA

9L-13L MODELS

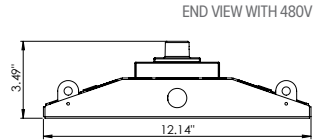
WEIGHT: 4 LBS.



SIDE VIEW WITH 480V



END VIEW

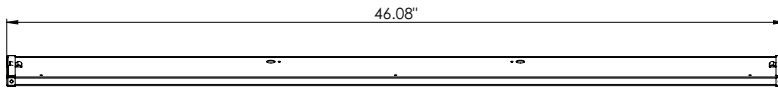


END VIEW WITH 480V

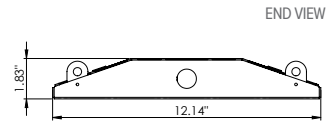
PENDANT MOUNT

19L-27L MODELS

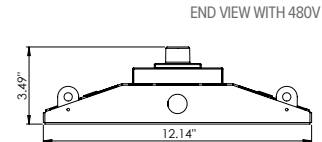
WEIGHT: 8 LBS.



SIDE VIEW WITH 480V



END VIEW

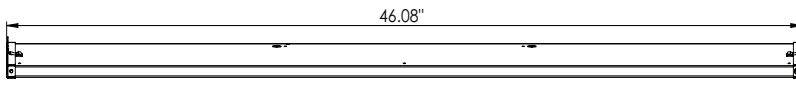


END VIEW WITH 480V

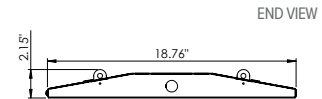
PENDANT MOUNT

32L-39L MODEL

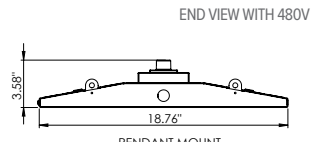
WEIGHT: 12 LBS.



SIDE VIEW WITH 480V



END VIEW

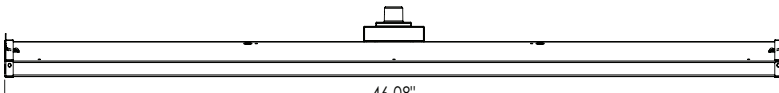
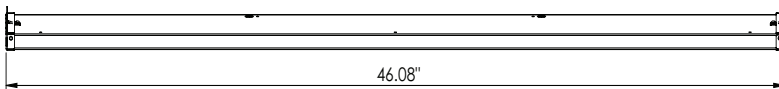


END VIEW WITH 480V

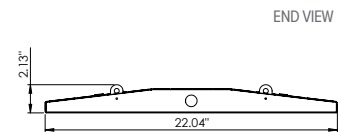
PENDANT MOUNT

44L-52500L MODEL

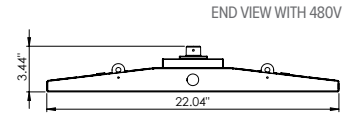
WEIGHT: 16 LBS.



SIDE VIEW WITH 480V



END VIEW



END VIEW WITH 480V

PENDANT MOUNT

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Indoor Industrial



LIGHTING SOLUTIONS

PHOTOMETRIC DATA

| MODEL | LENS/OPTIC | CCT | LUMENS | SYSTEM WATTS | LM/W |
|-------|------------|-------|--------|--------------|-------|
| 9L | 60° | 4000K | 8887 | 68.2 | 130.4 |
| | 90° | | 8734 | 68.2 | 128.1 |
| | AO | | 8790 | 68.2 | 128.9 |
| | NOL | | 10245 | 68.2 | 150.3 |
| | SPC | | 9750 | 68.2 | 143.0 |
| | SAF | | 9716 | 68.2 | 142.5 |
| 19L | 60° | 4000K | 19270 | 144.6 | 133.3 |
| | 90° | | 18813 | 144.6 | 130.1 |
| | AO | | 19157 | 144.6 | 132.5 |
| | NOL | | 20045 | 144.6 | 138.6 |
| | SPC | | 18316 | 144.6 | 126.7 |
| | SAF | | 18201 | 144.6 | 125.9 |
| 27L | 60° | 4000K | 25878 | 196.8 | 131.5 |
| | 90° | | 25264 | 196.8 | 128.3 |
| | AO | | 25725 | 196.8 | 130.7 |
| | NOL | | 27457 | 196.8 | 139.5 |
| | SPC | | 24597 | 196.8 | 125.0 |
| | SAF | | 24442 | 196.8 | 124.2 |
| 39L | 60° | 4000K | 38871 | 291.9 | 133.2 |
| | 90° | | 38265 | 291.9 | 131.1 |
| | AO | | 38370 | 291.9 | 131.5 |
| | NOL | | 42667 | 291.9 | 146.2 |
| | SPC | | 40693 | 291.9 | 139.4 |
| | SAF | | 40601 | 291.9 | 139.1 |
| 52L | 60° | 4000K | 50330 | 396.62 | 126.9 |
| | 90° | | 49378 | 396.62 | 124.5 |
| | AO | | 49746 | 396.62 | 125.4 |
| | NOL | | 55796 | 396.62 | 140.7 |
| | SPC | | 52782 | 396.62 | 133.1 |
| | SAF | | 53094 | 396.62 | 133.9 |

| MODEL | LENS/OPTIC | CCT | LUMENS | SYSTEM WATTS | LM/W |
|-------|------------|-------|--------|--------------|-------|
| 13L | 60° | 4000K | 11763 | 95.2 | 123.6 |
| | 90° | | 11561 | 95.2 | 121.5 |
| | AO | | 11634 | 95.2 | 122.3 |
| | NOL | | 13389 | 95.2 | 140.7 |
| | SPC | | 12906 | 95.2 | 135.6 |
| | SAF | | 12860 | 95.2 | 135.1 |
| 24L | 60° | 4000K | 23532 | 164.2 | 143.3 |
| | 90° | | 22975 | 164.2 | 139.9 |
| | AO | | 23393 | 164.2 | 142.5 |
| | NOL | | 24969 | 164.2 | 152.0 |
| | SPC | | 22367 | 164.2 | 136.2 |
| | SAF | | 22226 | 164.2 | 135.3 |
| 32L | 60° | 4000K | 32020 | 240.8 | 133.0 |
| | 90° | | 31520 | 240.8 | 130.9 |
| | AO | | 31607 | 240.8 | 131.3 |
| | NOL | | 35151 | 240.8 | 146.0 |
| | SPC | | 33520 | 240.8 | 139.2 |
| | SAF | | 33444 | 240.8 | 138.9 |
| 44L | 60° | 4000K | 42931 | 342.4 | 125.4 |
| | 90° | | 42118 | 342.4 | 123.0 |
| | AO | | 42433 | 342.4 | 123.9 |
| | NOL | | 48040 | 342.4 | 140.3 |
| | SPC | | 45022 | 342.4 | 131.5 |
| | SAF | | 45289 | 342.4 | 132.3 |

9L-13L LUMEN MULTIPLIER VS CCT

| CCT | MULTIPLIER |
|-------|------------|
| 3000K | 0.968 |
| 3500K | 0.966 |
| 4000K | 1.000 |

19L-27L LUMEN MULTIPLIER VS CCT

| CCT | MULTIPLIER |
|-------|------------|
| 3000K | 0.956 |
| 3500K | 0.972 |
| 4000K | 1.000 |

32L-39L LUMEN MULTIPLIER VS CCT

| CCT | MULTIPLIER |
|-------|------------|
| 3000K | 0.987 |
| 3500K | 0.974 |
| 4000K | 1.000 |

44L-52L LUMEN MULTIPLIER VS CCT

| CCT | MULTIPLIER |
|-------|------------|
| 3000K | 0.957 |
| 3500K | 0.914 |
| 4000K | 1.000 |

| EMERGENCY LUMEN PACKAGE (OPTION EM) | INITIAL OUTPUT * |
|-------------------------------------|------------------|
| EM OUTPUT 9L | 1232 LUMENS |
| EM OUTPUT 13L/24L/27L/39L/52L | 1163 LUMENS |
| EM OUTPUT 19L/32L/44L | 1184 LUMENS |

*LUMEN VALUES ARE FOR 5000K CCT



www.nordeon-usa.com (For other Experience Brands companies, please visit www.experiencebrandsusa.com)
In a continuing effort to offer the best product possible, we reserve the right to change, without notice, specifications or materials. Technical specification sheets that appear on www.nordeon-usa.com are the most recent ones available.



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PRODUCT SPECIFICATIONS

| | |
|------------------------------|--|
| LUMEN OUTPUT | Up to 55796 @ 4000K (See photometric data chart for details) |
| EFFICACY | Up to 146.2 Lm/W (See photometric data chart for details) |
| LUMEN MAINTENANCE | (L70): >100,000 hours @ 25°C LED modules individually replaceable ensuring easy serviceability in the field. |
| COLOR TEMPERATURES | 3000K, 3500K, 4000K, 5000K |
| OPTICS | Open 90°, 60°, Alsle Optic, Smooth Clear Polycarbonate Lens, & Smooth Frosted Acrylic Lens |
| CRI | 80 CRI |
| OPERATING TEMPERATURE | 40°C to +50°C (-40°F to +122°F). EM option operating temperature: 0°C to +40°C (32°F to +104°F). |
| INPUT VOLTAGE | 120-277V 50/60Hz driver; 347-480V 50/60Hz driver (Dimming standard for both voltages). |
| POWER CONSUMPTION | 68.2W - 342.4W depending on model (See photometric data chart for details) |
| CONTROL | 0-10V dimming standard. |
| INGRESS PROTECTION | IP20, suitable for damp locations. |
| CERTIFICATION |   |
| CONSTRUCTION | Body is 22 gauge steel pre-painted white standard. (Pre-painted black aluminum option available) A lightweight steel low profile body (1.33" - 1.57" high) allows excellent thermal management for rapid heat dissipation. Cord/plug option available (consult factory). |
| SENSORS | PIR with and without reflector/refractor, motion (OOS) and photo/motion (FSP) sensor options available, factory installed. |
| MOUNTING OPTIONS | Adjustable cable mount ready, with optional pendant mount available. |

LIGHTING CONTROLS



LINE VOLTAGE HIGH/LOW/OFF PIR FIXTURE INTEGRATED OUT-DOOR PHOTO/MOTION SENSOR | FSP-211

Fully adjustable high and low dimmed light levels; optional dusk to dawn control

Designed for LED fixtures; rated for extreme temperatures and up to 200,000 on/off cycles

Hold off setpoint with automatic calibration option for convenience and added energy savings



Adjustable via handheld wireless configuration tool

IP66 rated with choice of lenses for wet and outdoor locations, and mounting heights from 8' to 40'

Adjustable time delay and cut off delay



Description

The FSP-211 mounts in an outdoor lighting fixture and provides multi-level control based on motion and/or daylight contribution. It controls 0-10 VDC LED drivers or dimming ballasts, as well as non-dimming ballasts and, with an FSP-Lx Lens, is rated for wet and cold locations. All control parameters are adjustable via a wireless configuration tool capable of storing and transmitting sensor profiles.

Operation

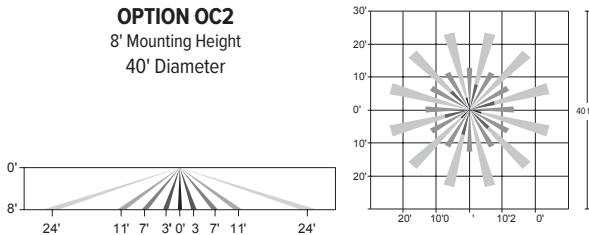
Typically, the sensor ramps lighting On to the selected High mode level when motion is detected and the ambient light level is below the hold off setpoint. After the sensor stops detecting movement and the time delay elapses, lights fade to the Low mode level. If there is no motion during the subsequent cut off time delay, the lights will turn Off. For dusk to dawn control, the integral photocell can switch the lights On and Off based on the ambient light level so that lighting remains on overnight even without motion detection.

Wireless Handheld Configuration Tool

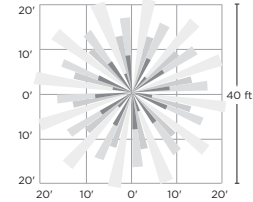
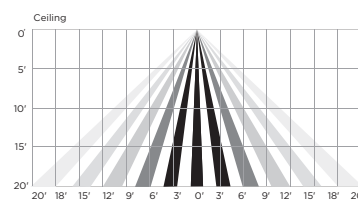
Initial setup and subsequent sensor adjustments are made using a handheld configuration tool (FSIR-100). This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cut off and more. The FSIR-100 is also used to initiate automatic calibration of the FSP-211 ambient light level setpoint. The setpoint is used to hold the controlled lighting off or at low level when there is sufficient daylight. The wireless tool stores up to six sensor parameter profiles to speed configuration of multiple sensors.

Applications

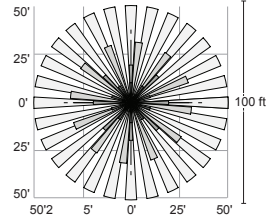
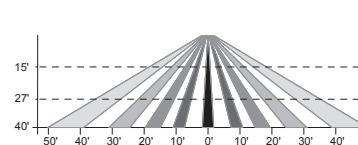
The slim, low-profile FSP-211 is designed for installation inside the bottom of a light fixture body. When fully assembled and installed in an IP66-rated fixture, the sensor and FSP-Lx lenses are IP66 outdoor rated. The sensor is ideal for areas such as parking facilities, gas stations, pedestrian pathways and warehouses. A choice of four lenses ensures complete coverage for mounting heights up to 40'.



OPTION OC3
20' Mounting Height
40' Diameter



OPTION OC4
40' Mounting Height
100' Diameter



LIGHTING CONTROLS



HIGH/LOW BAY PASSIVE INFRARED OCCUPANCY SENSOR | HBP-100 SERIES

Compact line voltage sensor with integral lens for all high bay applications

360° coverage from 15'-40'; lens covers 100' diameter area from 40' height; rotatable snap-on aisleway masking

Adjustable time delay and hold-off daylighting level



OPTION OCA



OPTION OCO

HBP-111 adjustable via handheld wireless configuration tool

120, 277, 347V, 60Hz or 230V, single phase, 50Hz operation

cULus listed snap-in mounting hardware



Description

The HBP Series High Bay Passive Infrared (PIR) Occupancy Sensors provide automatic control of individual LED and fluorescent lighting fixtures in warehouses and other indoor high and low bay spaces. The lens is engineered to provide reliable coverage from a wide range of mounting heights (15' to 40'), and coverage can be masked for aisleway applications using a snap-on accessory (included). A hold-off daylighting feature keeps lighting off when the ambient light level is above the selected threshold. Time delay and light level settings can be adjusted via function-specific trimpots. The HBP-111 can also be adjusted remotely using a wireless configuration tool.

Operation

Line voltage HBP sensors are designed to mount directly to a lighting fixture, and can be wired to control some or all of the drivers or ballasts. When the sensor detects motion, the relay closes, and the connected loads are automatically turned on. When motion is no longer detected for the duration of the time delay setting, the relay opens and the lighting load is turned off. The sensor's time delay and hold-off light level are factory preset at 15 minutes and 300 footcandles, respectively, suitable for most high bay applications.

Wireless Remote Configuration Tool

Initial setup and subsequent sensor adjustments of the HBP-111 may be made using a handheld configuration tool (FSIR-100). This tool simplifies adjustment of parameters including sensitivity, time delay and hold-off level with maximum granularity. The FSIR-100 is also used to enable or disable advanced features, including burn-in mode, walk-through mode, visual alert and occupancy mode. The wireless tool stores up to five sensor parameter profiles to speed configuration of multiple sensors.

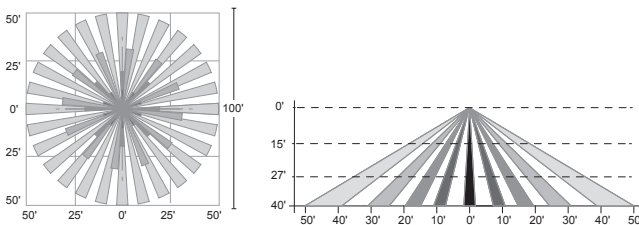
Hold-off Daylighting

The hold-off daylighting light level feature provides additional energy savings. Once the lights turn off after the time delay has elapsed, this feature holds lighting off upon new occupancy if there is sufficient ambient light available.

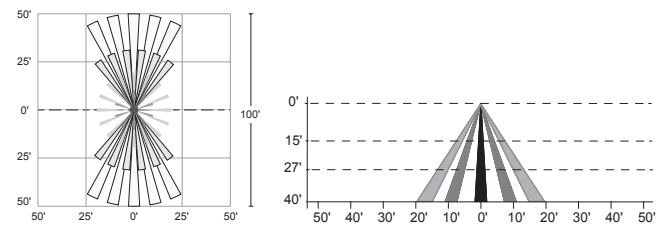
Applications

The high bay occupancy sensor is ideal for applications in warehouses, distribution centers, gymnasiums, and other high and low bay indoor spaces. The optional HBP-EM1 Extender Module provides additional mounting flexibility.

OPTION OCO
40' Mounting Height
100' Diameter



OPTION OCA
40' Mounting Height
100' Diameter



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LIGHTING SOLUTIONS

MOUNTING

ADJUSTABLE CABLE HANGER ACCESSORY

Please specify lengths when ordering this accessory separately with customer service. (For custom lengths, please consult factory)

ACH5

5 FT. ADJUSTABLE CABLE HANGER

ACH10

10 FT. ADJUSTABLE CABLE HANGER

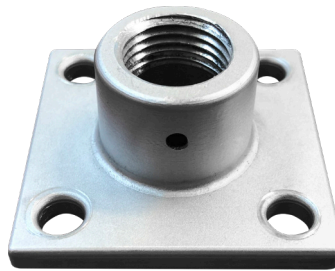
ACH15

15 FT. ADJUSTABLE CABLE HANGER



PENDANT MOUNT 1/2" NPT

(OPTION PDT) ONE PER NHBF, FACTORY INSTALLED



PENDANT MOUNT
(ALL MODELS)

